New Routemaster featuring hybrid electric driveline, 3 doors, 2 staircases and rear platform

A 21st century successor to the iconic Routemaster bus, the New Routemaster delivers style, practicality, passenger appeal and excellent environmental credentials. It is set to become a modern day global passenger transport icon.

The very distinctive double deck bus is powered by the latest in hybrid technology and, as well as striking external styling, has a number of features including two staircases, a class leading wheelchair bay and priority seating with space for assistance dogs. It also incorporates a modern take on some of the best loved design elements of the Routemaster – such as grooved flooring on the stairs and entrances, light weight bench seating and, most importantly, the "hop on hop off" rear platform.

Driveline

- Cummins 4 cylinder iSBe
- Siemens ELFA® II electric drive system
- Latest generation Valence Lithium-ion battery technology
- Electrically driven power steering and air compressor
- Start/stop engine technology

Passenger Capacity

- 62 seated, 25 standees, maximum capacity 87

Specification

- Overall length: 11232mm
- Overall width: 2520mm
- Overall height: 4420mm

Features

- 100 vehicles already in service, with a total of 600 vehicles due to be in operation in London by mid 2016
- Dual mode operation: 3 door entrance/egress or two door and a hop on hop off platform
- Oyster card validator at each door
- 2 staircases
- Fuel consumption of 11.6mpg as tested on the Transport for London Route 159
- 47% CO_2 reduction
- Adjustable driver's workplace with integrated diagnostic technology
- Option for remote diagnostic tracking
- Daytime running lights as standard
- Certified to EC Whole Vehicle Type Approval and ECE Regulations 107
- Class leading in noise, vibration and harshness

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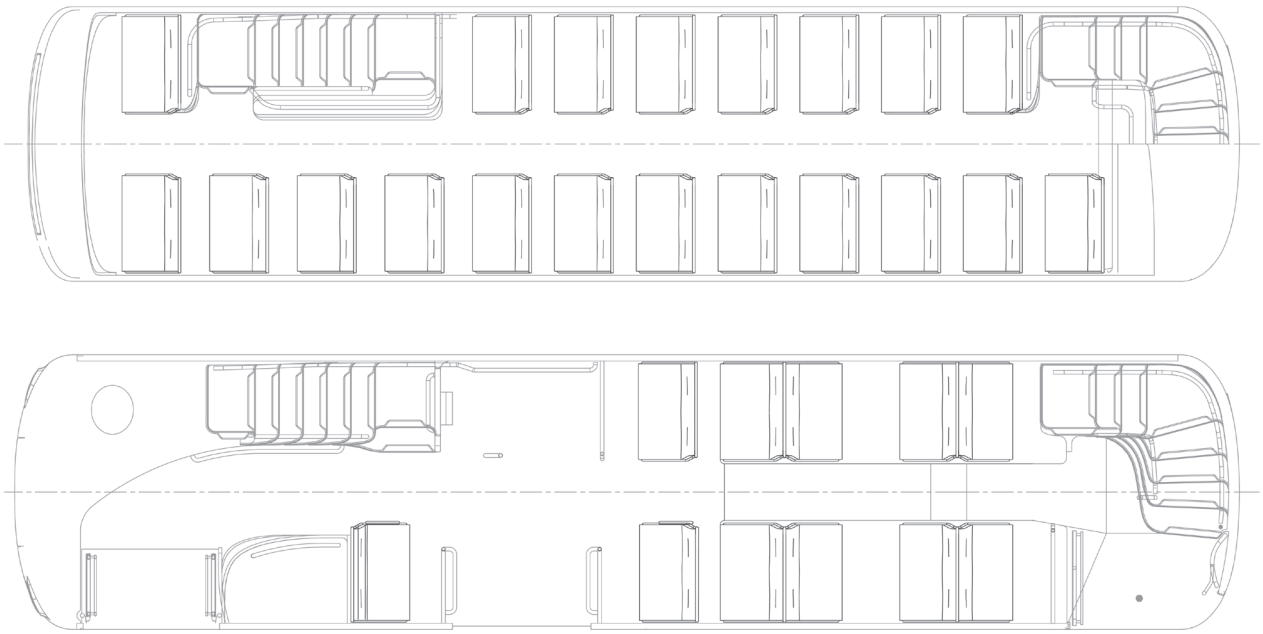
The New Routemaster Vehicle Layout and Seating Plan



Delivering reliability and fuel economy

The hybrid bus answers all the key questions in the search for an innovative approach to encourage the greater use of public transport in urban areas. It is a radical yet practical mode of transport, providing an effective use of road space in a highly environmentally friendly way.

- A series hybrid system consists of a generator directly coupled to a small, efficient diesel engine, electric drive motor and high voltage battery pack. The engine/generator package operates independently of the motor/driving axle, eliminating the need for a traditional gearbox and enhancing system efficiency
- The vehicle control system communicates directly with all system controllers, to optimise vehicle performance and maximise fuel efficiency in all road conditions
- Start/stop engine technology ensures that the engine only operates when it is required. The vehicle is capable of running on battery only, and during this period the engine is switched off to dramatically reduce fuel consumption and engine emissions

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